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Fire extinguishing method - involves discharging highly water absorbing foam with water, to avoid water damage to buildings and equipment

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Abstract (Basic): JP 3292969 A

Method comprises mixing a highly water-absorbing polymer with fire extinguishing water and discharging the water or mixing a highly water-absorbing polymer with discharged fire-extinguishing water.

Also claimed are fire extinguishing appliances to discharge water or to mix highly water-absorbing polymer with discharged fire extinguishing water.

Polymer is prep'd. by dispersing acrylic acid and its alkali metal salt aq. soln. into aliphatic hydrocarbon solvent dissolved with a macromolecular dispersant, reversed phase suspension-polymerising the obt'd. dispersion and crosslinking the resultant polymer with a crosslinker with at least two functional gps., when the polymer is azeotropically dehydrated. This method is described in J63038638 and J01213307. The polymer pref. has a spherical shape an elution rate of up to a swell of at least 1.5 times and a water absorption of 50-300 timesK

USE/ADVANTAGE - Prevents sec. damages to buildings and esp. precision instruments after fire extinguishing using water. The polymer forms a gel without adhesion by absorbing water and can be removed from walls, floors, and equipment. The polymer is mixed into water in the discharge hoses or to the discharged water from a polymer discharge device. (3pp Dwg.No.0/3)